

1914

STEWART HARTSHORN CO.
SHADE ROLLERS AND ACCESSORIES

TD CAT 1914 Stewart Hartshorn (a.2)

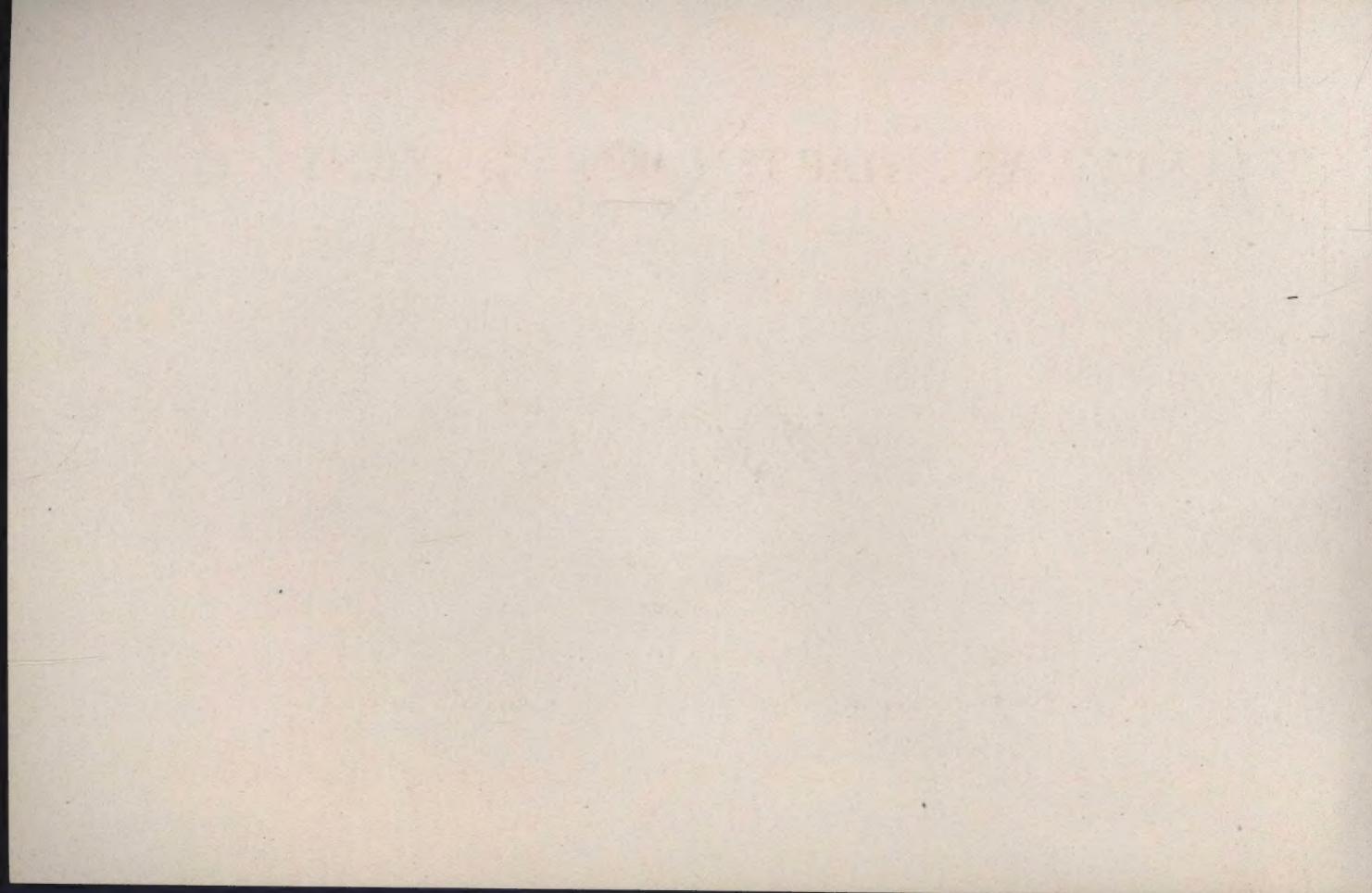
ATHENAEUM OF PHILADELPHIA

dk 30-

1190

15672

p. Mori 2/90



STEWART HARTSHORN COMPANY

SHADE ROLLERS AND
ACCESSORIES



MAIN OFFICES AND FACTORIES

E. NEWARK, N. J., U. S. A.

STOCK ROOMS

NEW YORK, 382 LAFAYETTE ST.
CHICAGO, 521-527 S. WABASH AVE.

BRANCH FACTORIES

MUSKEGON, MICHIGAN.
TORONTO, CANADA.

STEWART HARTSHORN COMPANY

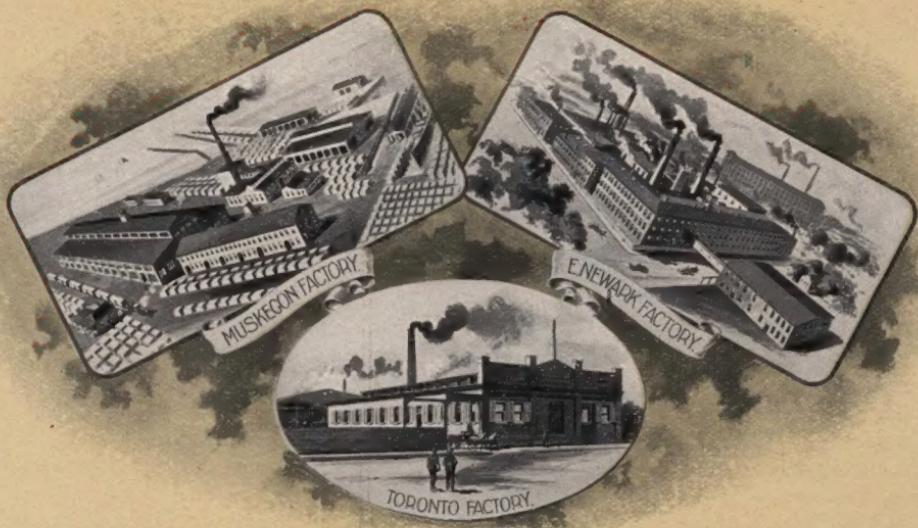
Index

	PAGE
Preface.....	4
Directions for Ordering.....	5
WOOD ROLLERS.....	6 and 7
Bottom Roller Clip.....	8
Pin End.....	9
Roller Wrench.....	9
Shade Pulls.....	10
Shade Guide.....	11, 12, 13
Hanging Shades for light and ventilation and Shade Brackets for the same.....	14 and 15
Shade Clasps.....	16
Expansible Screw Grips.....	17
Catch Pulley.....	18
TIN ROLLERS.....	19, 20, 21, 22, 23
TIN ROLLERS De Luxe.....	24
Slats.....	25
Awning Rollers for Shops or Verandas.....	26, 27, 28, 29
Shop Window Awning (Cut).....	30
Veranda Awnings (Cut).....	31
Brackets.....	32, 33, 34, 35
Shade Roller Level.....	36

COPYRIGHTED 1910 BY STEWART HARTSHORN CO.

24571577B Td Cat
 10-16-91 1914
 9-29-2004

STEWART HARTSHORN COMPANY



FACTORIES OF THE STEWART HARTSHORN CO.

Preface



All our Rollers are
guaranteed to do
perfect work:

Every Genuine
Hartshorn Roller
has the name of
Stewart Hartshorn
in script on label.

FIRST-CLASS article is always the best to handle and to recommend. It requires experience to accomplish anything in a perfect manner, especially in the manufacture of articles for general use. A Spring Shade Roller should contain a finely tempered steel spring, so adjusted as to perform the maximum work. It must be strong, yet run the shade up smooth and easy; it must not be liable to get out of order; it must be made systematic so that every roller will be uniform in action.

EVERY ITEM used in the manufacture of Hartshorn Rollers is subjected to the most careful inspection. In our wire mill we use the best of steel rod that can be procured to manufacture the wire from which we make our springs. The springs are so adjusted as to develop the maximum strength with the easy motion desirable. The trade who have handled Hartshorn Rollers for years know that they are not liable to get out of order. Their manufacture is based on a system that DOES produce the standard article. Attempts to copy and imitate are continually being made, but none have succeeded in accomplishing what it has taken years of experience to produce. Old forms that we have condemned years ago are now placed on the market as new. We are continually forging ahead with important improvements.

The trade is particularly requested to notice name of Stewart Hartshorn, in script, across label, which is placed on every genuine roller, "NEVER OMITTED." This information will, in some cases, prevent being imposed upon, by receiving inferior rollers sold as Hartshorn.

Directions for Ordering

ONLY one pair of brackets furnished for each roller. State on all orders whether you want inside or outside brackets, and what proportion if you want both. Extra brackets for Tin or Wood Roller will be charged.

Brackets.

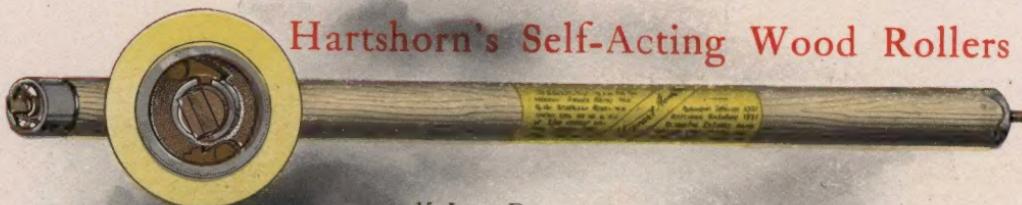
Every one knows the trouble caused by fastening shades on wood rollers with tacks. They will not hold the shade securely on roller when put to the test. Our Improved Roller with holders will obviate all trouble. A shade mounted on this roller will always remain in position. Your customers will appreciate the fact and have no cause for complaint if you furnish them with Hartshorn's "Improved" Shade Roller.

"Improved"
Rollers.

Order "Improved" Wood Rollers and thus get the best.

STEWART HARTSHORN COMPANY

Hartshorn's Self-Acting Wood Rollers

 $\frac{15}{16}$ INCH DIAMETER.

	With Iron Ends	With Pin Ends	Improved
39 inches long, packed in 2 gross crates.....	Per Gross, \$13.65	\$13.90	
42 inches long, packed in gross cases.....	" " 13.75	14.00	

1 INCH DIAMETER.

39 inches long, packed in 2 gross crates.....	Per Gross, \$16.15	\$16.40	\$16.65
42 inches long, packed in gross cases.....	" " 16.25	16.50	16.75

 $1\frac{1}{8}$ INCH DIAMETER.

42 inches long.....	Per Gross, \$19.75	\$20.00	\$20.25
48 inches long.....	" " 20.25	20.50	20.75

 $1\frac{1}{4}$ INCH DIAMETER.

42 inches long.....	Per Gross, \$23.50	\$23.75	\$24.00
48 inches long.....	" " 24.00	24.25	24.50
54 inches long.....	" " 30.00	30.25	30.50
60 inches long.....	" " 34.00	34.25	34.50
63 inches long.....	" " 35.00	35.25	35.50

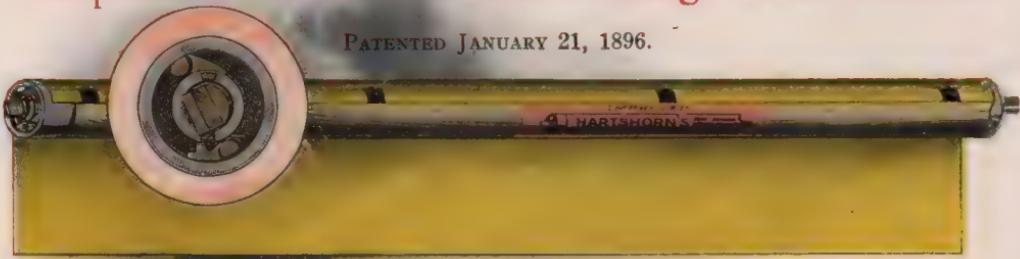
All above prices are for gross cases. If $\frac{1}{4}$ gross or $\frac{1}{2}$ gross cases are ordered an additional price of 15 cents per case will be charged.

Do not make the mistake of selecting the smallest diameter that will take up the shade, for the larger the diameter of roller used the straighter the shade will roll.

STEWART HARTSHORN COMPANY

“Improved” Hartshorn’s Self-Acting Shade Rollers

PATENTED JANUARY 21, 1896.



NO tacks required. No tearing off of shade. These Improved Wood Rollers are in all regular diameter and lengths, except the $\frac{15}{16}$ Hartshorn Roller.

Our Patent Pin Ends and sufficient Holders, are supplied with each order.

When ordering specify Hartshorn's “Improved Wood Rollers.”

Patent Holders and Pin Ends.



Hartshorn's New Bottom Roller Clip

IMPROVED FORM. PATENTED JUNE 6, 1905.



Spring End With New
Enlarged Disk.



New Bottom Roller
Clip.



The Clip Placed Over Washer
Force the Clip Through
V Shaped Hole.



Bottom Roller Clip in Place.
The Projecting Part of
Clip Covers a Pawl Notch.

For use when
roller is placed
at bottom
of window.

THE object of this simple device is to make any roller suitable for the bottom of window. As the majority of rollers are placed at the top of windows, with the usual form of brackets, many do not carry in stock bottom or one-notch rollers. Skillful workmen well know that when a roller is placed at bottom of window it is necessary to run the cord through a catch pulley at top of window. This catch pulley takes the place of the pawls or stops on roller, and in that case it makes poor work when the pawls catch on the spear, causing the shade to bag when run down. With this clip, quickly applied, you have a perfect bottom roller.

Bottom Roller Clips for $\frac{1}{2}$, 1 and $1\frac{1}{2}$ inch Rollers.....	per gross, \$0.40
Bottom Roller Clips for $1\frac{1}{2}$ inch Rollers.....	" " .50
Bottom Roller Clips for $1\frac{1}{2}$ and $1\frac{3}{4}$ Tin Rollers.....	" " .60

Hartshorn's Pin End



Patented May 2, 1893.

A SIMPLE form of roller end that requires only one driving of pin. No nails required. This pin end gives a neat finish to the roller.

When sold without rollers, 75 cents per gross.

Always furnished with Improved Wood Rollers, according to prices on page 6.

Hartshorn's Roller Wrench



About $\frac{1}{2}$ Actual Size.

WHEN it is necessary to remove a roller, with bottom roller clip on, out of the brackets, the above tool will be found very convenient. Force the tool between the bracket and the washer on spear. Turn tool until the roller can be lifted, then allow the tool to go around until the pawl drops in free notch.

Ten cents each.

Hartshorn's Window Shade Pull

Patented May 1, 1906.

DIRECTIONS FOR USING.

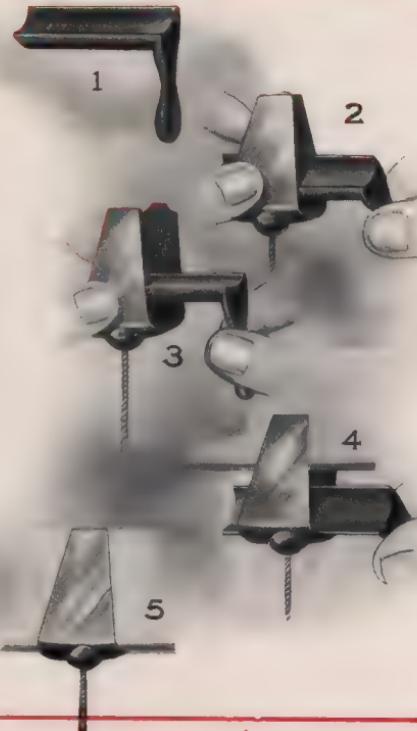
IN every gross package will be found a tool as shown by Cut 1. Make a large knot on end of cord so that it cannot pull through hole. With every gross will be furnished a bent wire to pull cord through hole in bottom. Take tool in right hand and place in Pull as shown by Cut 2. Place forefinger of left hand at top of near face of Pull and the thumb at bottom of Pull, then turn the tool so as to spread the Pull out as shown by Cut 3. When in that position, place over bottom of shade and slat, then turn the tool so as to allow the Pull to grasp, then release the tool as shown by Cut 4. Then shove the Pull hard up to bottom, and press the teeth together over the top of slat—see Fig. 5. Positive security is the result.

NICKEL PLATED, per gross. \$2.00

KNOT HOLDER.

With Hartshorn's Window Shade Pull it will often be found desirable to cover the lower knot on cord; therefore, we have produced a Knot Holder as shown by cut, actual size.

PRICE per gross. \$0.25

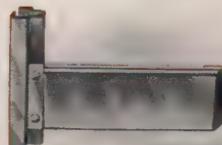


Hartshorn's Shade Guide

PATENTED MAY 18, 1897.

ALL handlers of window shades are aware of the trouble in making shades to roll straight on window. Wires, strings and rods have been used on sides, but they all give more or less trouble by stretching or moving from side to side. This invention is intended to meet all objections. In the Pawl Frames are pawls that catch in holes in Pawl Racks. The action of pawl on roller must be prevented by Clip shown on page 8. The tension of spring is all the time on the Pawl Frames, that are slid loosely on bottom slat. By this means the shade is always taut, and if it is perfectly squared and the roller placed up perfectly horizontal, the result will be exact running of shade. The action is the same as when working the shade with pawls on roller. A quick action disengages the Pawls in Pawl Frames from holes in the rack, and a slow motion allows the pawls to fall in the holes.

By the use of the shade guide, the shade always stops at the same distance from the bottom of window. Very attractive around bay windows and at the front of house.



PAWL FRAMES, RIGHT AND LEFT.

As they go when used with outside brackets. When used in inside work or with inside brackets the one shown on right is placed on left and the one shown on left is placed on right.



PAWL RACKS OR GUIDES.
When used outside.



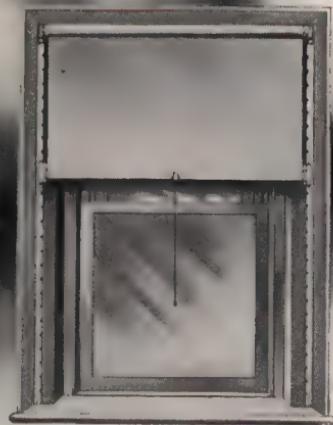
PAWL RACKS OR GUIDES.
When used inside.



SCREW ENCASED WITH RUBBER.

One is placed on top of each rack just clear of shade and roller. This screw is to prevent the Pawl Frame from going further than the top of rack.

Hartshorn's
Shade Guide



WINDOW FITTED WITH
THE SHADE GUIDE

Directions for Placing Up Hartshorn's Shade Guide

Always use our Shade Level (page 36) when placing up Shades.

PLACE up roller with Bottom Roller Clip covering one of the pawl notches (see page 8). Have the open pawl notch up so the pawl will catch.

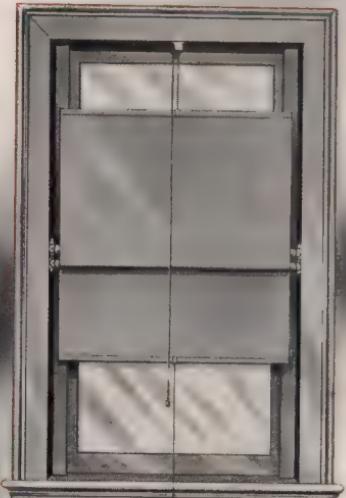
Shorten the slat, so that when the Pawl Frames are slipped on loosely there will be about one-quarter inch play from end to end when the racks are in position. The upright part of frames should be just clear of shade.

For each window there will be found in the box two short pieces of rack $3\frac{3}{8}$ inches long. These must invariably be used, one on each side, at bottom of window, and the others must be built up from these to the top. If it is necessary to shorten a rack, always (with hack saw or file) cut off the top piece of rack never the lower part. It is necessary to have the holes in racks just opposite one another horizontally. After the racks are all screwed up with screws provided, then take off the bottom short pieces and push them through the Pawl Frames from the bottom up, then replace the short pieces. That will allow the Pawl Frames to slide on the racks. Place the rubber incased screws, one in each side at the top of racks. They act as bumpers to the Pawl Frames when the shade is rolled up.

See that there is enough spring on the roller to take the shade up smartly. Then remove the spring end of roller from bracket and replace with covered pawl notch up, so that the pawl will not act. If the work has been done on the square, the shade will always roll perfectly straight.

Two Pawl Frames and Rubber Encased Screws, per set.....	\$0.75
Racks per running ft.....	.20

These items are furnished bright gilt, dull brass, oxidized copper, dull nickel and polished nickel. Please state when ordering what finish is wanted, and the length of Guides required.



ON this page we show the method of hanging shades to gain all the advantages claimed for shade adjusters, and at the same time avoid all the disadvantages of the latter. By hanging shades as shown they will always run straight, and will not get out of order by the stretching of cords, etc. Less expensive, more quickly placed up, and positively durable.

This cut shows two rollers placed in centre of window. The shade on bottom roller runs up. The shade on top roller runs down. Use special brackets shown on page 15. A simple, economical and satisfactory arrangement to gain all the advantage of controlling the light and ventilation.

Use Hartshorn's catch pulley on the top shade, and you will find that the customer will be pleased.

Use bottom roller clip on lower roller (see page 8).

Brackets

FOR TWO SHADES ON WINDOW



SQUARE HOLE.

No. 86. PER PAIR, \$0.03½.



ROUND HOLE.

SQUARE HOLE. ROUND HOLE.

No. 87. PER PAIR, \$0.03½.

Cuts three-fourths size.



Hartshorn's Shade Clasp



SOLD at the following prices, packed one gross in a box.

No. 1 Size, for 1 inch and $\frac{1}{2}$ inch roller.....	per gross, \$0.75 net.
No. 2 Size, for $1\frac{1}{8}$ or $1\frac{1}{4}$ inch roller.....	" " 1.00 "

Does away with all use of tacks.

When Shade Clasps are used it is necessary that the shade should be fastened at the blue line on roller, the same as when tacks are used, so as to make it easy to start the shade when pulled all the way down. By the use of the Hartshorn Clasp this is accomplished by forcing the tooth of clasp through shade into blue line, and pressing the clasp firmly around the roller. It is made of thin, finely tempered steel, and therefore allows the shade to roll close and even.

Hartshorn's Expansible Screw Grip

(PATENT APPLIED FOR)

DIRECTIONS FOR USING.

FIRE-PROOF buildings require metal window casings. The metal used is very thin. With this simple device the brackets can be placed quickly and firmly on any thickness of metal from the thinnest to one-quarter inch thick.

As the screw holes in brackets have to be formed in the way shown on Fig. 2, at B, it is necessary to send Brackets with the screw grips. After the holes in casing are drilled the screw grip is run through hole in bracket, then through hole in casing. See that Part A, Fig. 1, rests in Slot B in bracket. Then screw up. That action causes the part D, to follow up under Part C, resulting in the positive grip shown Part E, Fig. 2.

Use a Letter C Drill when making the holes in casing after marking through the holes in brackets so they will agree with the brackets. The usual way of first placing up the round hole bracket is followed. We advise the use of our Shade Level when placing up the square hole bracket. Allow the shade to unroll part

way, with the pin end in bracket, place the level over roller and shade, then with the square hole bracket placed on spring end, raise or lower until the spirit level shows that the roller is perfectly horizontal. Mark through screw holes, remove shade and roller and drill to marks, then screw up the bracket. The result will be a workmanlike job.

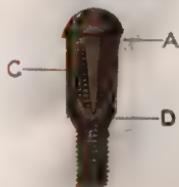


FIG. 1



FIG. 2

PRICES.

1 inch or $1\frac{1}{4}$ Inside or Outside Brackets

$1\frac{1}{2}$ inch or $1\frac{3}{4}$ Outside Brackets

Both prices cover one pair of brackets with the necessary four Expansible Screw Grips.

10 cents per pair

15 cents per pair

A catch pulley
that will catch.

Hartshorn's Catch Pulley

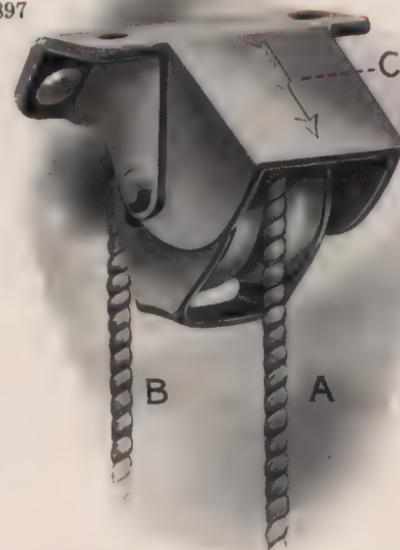
PATENTED SEPT. 28, 1897

(IMPROVED FORM)

ALWAYS use screws, provided, and not nails or hammer. Can be used in any position. Run cord from shade over pulley in direction of Arrow C. Have the drop frame between the cords, and do not allow cords to cross. This pulley has pawls or catches like a shade roller and they work the same way. A quick motion allows the pulley to work free. A very slow motion allows pulley to catch. Always allow cord to run in center of pulley.

Always prevent pawls on roller working when you use a catch pulley. Hartshorn's Bottom Roller Clip will do the business. See page 8.

Packed in $\frac{1}{4}$ gross boxes.....per gross,



Hartshorn's New Groove Tin Roller

Patented January 20, 1891—May 10, 1898



No more trouble
mounting Shades
on Tin Rollers.

THE fasteners, which are furnished with the "New Groove Rollers," are quickly applied and avoid the old necessity of folding over top of shade, sewing in of cord or wire, and also of the awkwardness of hauling the shade, as in the old groove, from end to end. This roller is much stronger in manufacture.

Time and Labor
Saved.

The New Groove Tin Roller is a great improvement and will become universal.

Tin Rollers



New Groove.

Regular
Packing.

WE make Tin Rollers in two ways: One with the old groove, in which the shade is run from end to end, and one with the "New Groove." With the latter we furnish fasteners, by means of which a shade can be as quickly placed on a tin roller as it is possible to tack it on a wooden roller (see page 19). Order New Groove if you want the best—the prices are the same for both styles.

1 in.—2 feet 2 inches and under.....	Each, \$0.35
Over 2 feet 2 inches, any length including 4 feet.....	" .40
1 1/4 in.—2 feet 2 inches and under.....	" .40
Over 2 feet 2 inches, any length including 4 feet.....	" .48
Over 4 feet, any length including 5 feet.....	" .60

When 1 inch or 1 1/4 inch Tin Rollers are ordered so that we can pack 36 of one diameter and one length in a case, a deduction of 25 cts. per case will be allowed. Bear in mind that there must be only one diameter and one length in each box to get this deduction. Slats will cost extra when ordered with Tin Rollers.

When Tin Rollers are ordered, the length should be given from End to End of bearings.

Price List of Tin Rollers

(CONTINUED.)

1½ in. —4 feet and under.....	Each, \$0.60
Over 4 feet, any length including 5 feet.....	" .80
Over 5 feet, any length including 6 feet.....	" 1.00
1¾ in. —4 feet and under.....	" 1.00
Over 4 feet, any length including 5 feet.....	" 1.12
Over 5 feet, any length including 6 feet.....	" 1.20
Over 6 feet, any length including 7 feet.....	" 1.30
Over 7 feet, any length including 8 feet.....	" 1.40
Over 8 feet, any length including 9 feet.....	" 1.50

When $1\frac{1}{2}$ or $1\frac{3}{4}$ inch Tin Rollers are ordered so that we can pack 36 of one diameter and one length in a case, a deduction of 50 cents per case will be allowed. Bear in mind that there must be only one diameter and one length in each box to get this deduction.

By regular packing, not only economy is reached, but damage in shipment is prevented by the uniformity of sizes in the same box. With a little care you can make your order so as to obtain the deduction.

Longer rollers should be made of greater diameter, to avoid trouble with shades. NO DIAMETER SHOULD BE USED OF MAXIMUM LENGTH, EXCEPT ON SHORT SHADES. Almost always the wrinkling of shades is caused by using rollers of too small a diameter for the width of shade. Allow at least two turns of cloth on roller when shade is pulled all the way down.

Boxes for Tin Rollers will be charged for at cost if orders are for less than $\frac{1}{4}$ gross of either $\frac{3}{4}$ in., 1 in., $1\frac{1}{4}$ in., $1\frac{1}{2}$ in., or $1\frac{3}{4}$ in. Also for $2\frac{1}{4}$ in. boxes containing less than 18 rollers.

Regular Packing.

Ratio of length
to diameter.

Extra charge for
Tin Roller boxes.

STEWART HARTSHORN COMPANY

Price List of Tin Rollers

(CONTINUED).

2½ in.—6 feet and under in length.....	\$2.40;	Over 6 feet.....	per foot, \$0.40
This diameter not made over 12 feet long, and should not be over 10 feet when used on long or heavy shades.			
3 in.—7 feet and under in length.....	\$4.90;	Over 7 feet.....	per foot, \$0.70
This roller should not be made over 15 feet to roll ordinary shade cloth, and not over 13 feet when used on very heavy goods or awnings.			
4 in.—7 feet and under in length.....	\$10.50;	Over 7 feet.....	per foot, \$1.50
This roller should not be made over 18 feet.			
5 in.—10 feet and under in length.....	\$20.00;	Over 10 feet.....	per foot, \$2.00
This roller should not be made over 25 feet.			

2½ inch
Regular Packing.

When 2½ in. rollers are ordered so that we can pack 18 all one length in a box,
a deduction of 50 cents per case will be allowed.

When ordering large diameter rollers, state weight and length of shade.

Slats are extra and will NOT be sent with Tin Rollers, unless ordered.

For prices of slats see page 25.

(There is a discount of 35 per cent. from list on all Tin Rollers).

STEWART HARTSHORN COMPANY

Tin Rollers for Cars

SPECIAL rollers are furnished for Railroad Cars. Universally used wherever cars are run. They are made $\frac{3}{4}$ inch, 1 inch and $1\frac{1}{4}$ inch diameter for Passenger Coaches, and $1\frac{1}{2}$ inch and $1\frac{3}{4}$ inch diameter for Open Street Cars. Same prices and terms shown on regular tin list for the various diameters. When ordering rollers for cars state the use, as the springs are special; also mention the style of brackets required. For car use, brackets are in stock of numerous shapes. Send for special car roller list.

Rollers for
Railroad and
Street Cars.

$\frac{3}{4}$ INCH TIN ROLLERS, BRASS ENDS, 1 INCH DIAMETER FOR VESTIBULE OR CARRIAGE USE.

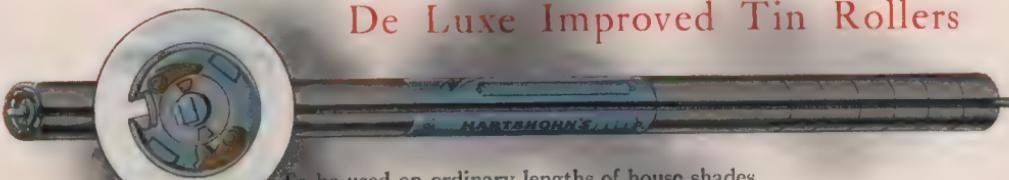
2 feet 2 inches and under.....	Each, \$0.40
Over 2 feet 2 inches to and including 3 feet 6 inches.....	" .48
Polished brass or plated vestibule brackets, per pair.....	25 cents net.
Plated roller ends, spear and pawls, per set.....	5 cents net.

All Rollers are
Guaranteed to do
Perfect Work.

Rollers for Vesti-
bule and Carriage
use.

STEWART HARTSHORN COMPANY

De Luxe Improved Tin Rollers



To be used on ordinary lengths of house shades.

1 INCH DIAMETER.

34 inches, reducible to 22 inches.....	per gross, \$55.60
43 inches, reducible to 30 inches.....	" " 56.60
48 inches, reducible to 40 inches.....	" " 57.00

1 1/4 INCH DIAMETER.

36 inches, reducible to 22 inches.....	per gross, \$67.00
43 inches, reducible to 31 inches.....	" " 67.92
49 inches, reducible to 40 inches.....	" " 70.00
55 inches, reducible to 43 inches.....	" " 77.76
63 inches, reducible to 55 inches.....	" " 86.40

TIN Rollers will always remain straight and should be used on all first-class shade work in dwelling houses. The Groove, used on these rollers, allows a positive holding of cloth and the reducible feature of the roller will be appreciated, avoiding the necessity of cutting tin to meet any length required. To shorten the roller, pull out the wood end, remove one or more of the bands, saw off the same length of wood. Be sure to replace the steel expander that will be found in the end of wood.

All of the above prices apply to $\frac{1}{2}$ gross cases. If in $\frac{1}{4}$ gross cases, 15 cents per case extra will be charged. Smaller quantities not sold.

Only one length and diameter packed in each box with slats.

The necessary fasteners or wires for holding the shade in groove will be found in box. Made with Old or New Groove. This list subject to the regular tin discount. No boxing allowance.

**De Luxe Tin
Rollers as a
substitute for
wood rollers.**

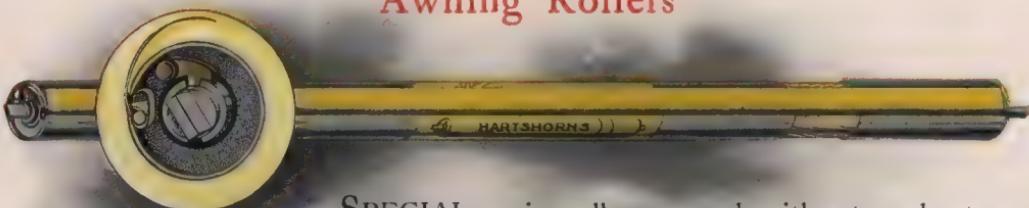
**De Luxe Rollers
suitable for fine
dwelling house
shades.**

STEWART HARTSHORN COMPANY

Price List of Shade Slats

No. 1 quality, 1 inch slats, 39 in. and 3-6, per 1,000.....	\$6.00
No. 1 quality, 1 inch slats, 4-0 long, per 1,000.....	6.50
No. 1 quality, 1 inch slats, 4-6 long, per 1,000.....	10.00
No. 1 quality, 1 inch slats, 5-0 long, per 1,000.....	15.00
No. 1 quality, 1 inch slats, 5-4 long, per 1,000.....	16.00
A Style, 1½ inch slats, round back, up to 6 feet.....	per foot 1 cent
B Style, 1½ inch slats, round back, up to 8 "	per foot 1¼ "
C Style, 1¾ inch slats, round back, up to 12 "	per foot 1½ "
No. 4 Style, 1¾ inch slats, round back, 7 up to 12 "	per foot 1¾ "
No. 5 Style, 2 inch slats, round back, 9 up to 15 "	per foot 2½ "
No. 6 Style, 2½ inch slats, round back, 12 up to 16 "	per foot 4 "

Awning Rollers



Awning Rollers.

These rollers are made extra heavy to stand the unusual strain.

SPECIAL awning rollers are made with extremely strong springs and extra heavy parts to stand the work in the most perfect manner. All these will have strips of linen run into the groove to which the awning is to be sewed. When ordering rollers for awning use, mention the fact and state whether the awning will run straight up and down like a window shade or will be used with iron outriggers. All castings are galvanized.

1½ in.—4 feet and under in length.....	Each, \$0.80
1¾ in.—4 feet and under in length.....	" 1.20
Over 4 feet to and including 5 feet.....	" 1.30
Over 5 feet to and including 6 feet.....	" 1.40
The 1½ and 1¾ inch to be used only on usual light-weight dwelling house awnings.	
2¼ in.—6 feet and under in length....\$2.40; Over 6 feet.....per foot, .40	
Must not be used over 10 feet long, and on heavy storefront awnings larger diameters should always be used.	
3 in.—7 feet and under in length....\$4.90; Over 7 feet.....per foot, .70	
This roller should not be used over 13 feet on awnings.	
4 in.—7 feet and under in length....\$10.50; Over 7 feet.....per foot, 1.50	
This roller should not be used over 18 feet on awnings.	
5 in.—10 feet and under in length....\$20.00; Over 10 feet.....per foot, 2.00	
This roller should not be used over 25 feet long.	
Same discount as rules on regular Tin Rollers.	

Hartshorn's Spring Roller for Shop or Veranda Awnings

Send for our Special Awning Catalogue.

CUT No. 1, on page 30, shows a front properly fitted with one of our Awning Rollers and Awnings. The frame A should be made of gas pipe. The tape or cord B should be fastened to the roller at the extension end and six to eight inches from bracket. This cord or tape rolls up with the awning, and when pulled on unwinds the awning. When the awning is down, fasten the cord or tape to cleat C. It is a good practice to carry this cord or tape through a hole in casing of window, so the awning can be worked from the inside of shop.

Awning rollers have only one pawl on spring end and one notch on spear or hub. Screw up the brackets, the square hole to the right of shop front; that will cause the awning to roll over the roller, thus preventing dust from rolling in awning. Place roller in brackets with notch in spear up. Adjust the power of spring according to directions on label, the same as you would on a window shade. After you get the awning to roll up and down easily, then take roller out of square hole bracket and replace with notch of spear down; that will prevent the pawl dropping into notch when working the awning. Be careful to see that this is done, as the pawl must not act when the awning is left in proper working condition. Be careful to allow only a little play from end to end of roller in brackets, and see that the wooden end or extension piece is securely fastened by two or more wire nails, so that it cannot slip in or out after the proper adjustment is made in the brackets. The omission of this fastening has caused some awning rollers to fall or to be blown out of brackets.

All awning rollers have strips of linen run in groove to allow the awning cloth to be sewed on same.

STEWART HARTSHORN COMPANY

The awning cloth should be long enough to allow at least two turns of cloth around roller when the awning is all the way down. Always send two men to place up a wide awning—one man on each end of roller. All iron parts of awning rollers are galvanized. We do not furnish the iron piping—only the roller and brackets.

It is well known that the larger the diameter of roller used, the better, more smoothly and straighter the cloth will roll on the same. Spring rollers for awnings are large in diameter, and therefore the cloth rolls up correctly on them. We advise the use of the Ratchet Catch described as follows:

Ratchet Catch

TO PREVENT THE ACTION OF HIGH WINDS

UNWINDING THE AWNING FROM ROLLER

This device, as pictured in Fig. 2, page 29, shows the application to a shop awning. The ratchet wheel we firmly attach to the end of extension piece, and when placed up, a heavy ratchet is held engaged in the ratchet wheel by a spring. It will be noticed by the cut that if any pull is exerted on the awning cloth by a sudden gust of wind, or otherwise, the ratchet will prevent the roller turning, thus holding the cloth and preventing its unwinding. A shop awning has the extension end of roller on the left, allowing the awning to wind over and not under the roller. The Shop Awning Ratchet Catch is then used as shown by Cut No. 2. To get the awning down it will be necessary to release the ratchet by means of a cord attached to same, when the awning is pulled down by the tape or cord attached to roller as above described.

Veranda Awnings

Are mounted and work straight up and down like window shades, with square hole bracket to the left and extension end to the right. This necessitates a Ratchet Catch as shown by Fig. 3. With this device the awning will roll up when the pawl on the roller is started by a downward pull, same as an ordinary window shade; but to unroll the awning it is necessary to free the ratchet from the teeth of wheel by pulling on the release cord. With this device on a veranda awning, and the actuating cord at bottom of awning fastened, no wind will cause the cloth to belly out. It will be held firmly, and the cloth will be straight up and down. All parts of these

two forms of Ratchet Catch are heavily galvanized, and have been especially designed to stand the heaviest possible strain. We repeat, always fasten the extension piece in roller after adjustment in brackets, so that it cannot be forced in or out.

These Ratchet Catches will be sent only when especially ordered, at an additional cost of 50 cents each, net.



Fig. 2
For Shop Awnings.

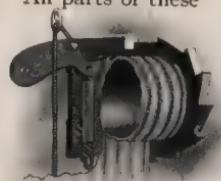


Fig. 3
For Veranda Awnings.

STEWART HARTSHORN COMPANY



SHOWING A SHOP AWNING WITH OUTRIGGERS PROPERLY MOUNTED ON SPRING ROLLER.

STEWART HARTSHORN COMPANY



SHOWING THE EFFECT OF AWNING CLOTH PROPERLY PLACED UPON VERANDA ROLLERS.

Brackets

(DESIGN PATENTED APRIL 17, 1900.)

FOR TWO SHADES ON ONE WINDOW.

RIGHT HAND.



LEFT HAND.

No. 71. CUT $\frac{3}{4}$ SIZE. FOR $\frac{15}{16}$, 1, $1\frac{1}{8}$,
 $1\frac{1}{4}$ INCH. PER PAIR, \$0.05

STEWART HARTSHORN COMPANY

SQUARE HOLE.



No. 62
PER PAIR, \$0.02
Three-quarters
Size.

ROUND HOLE.



SQ. HOLE



RD. HOLE.



No. 63

PER PAIR, \$0.01
Four-fifths Size.

No. 174. PER PAIR, \$0.01 $\frac{1}{4}$
Four-fifths Size.

SQUARE HOLE.



ROUND HOLE.



Brackets

SQUARE HOLE. ROUND HOLE.



SQUARE HOLE. ROUND HOLE.



No. 263. STAMPED STEEL.
Four-fifths Size.
Per Pair \$0.01.

Hartshorn Shade Roller Level

Price, \$1.50 each.

A HANDY POCKET LEVEL FOR LEVELLING ROLLERS WHILE MOUNTING THEM ON WINDOWS.

Patented Nov. 5, 1907.



THE necessity of such a device will be apparent to all expert shade hangers, who know that a shade roller must be perfectly horizontal in order to roll the shade up straight. Formerly to attain this result the workman had to go largely by judgment in adjusting the brackets. Nearly all windows are out of true, owing to the settling of the building, or the shrinking of the wood-work. If the shade roller is trued up with the casing it will, therefore, not be horizontal.

As will be noticed by the cut our shade roller level is composed of two wings pivoted together like a hinge, which allows the level to close up into a compact form for carrying in the pocket or tool bag. Also, it allows the level to be opened so as to encompass any diameter of roller up to five inches. When levelling a shade the round hole bracket is put up first, then the shade is partially rolled up on roller and the level is opened out enough to straddle the top of shade and roller. The roller is then put into the round hole bracket, and the square hole bracket is slipped on to the spear.

The roller is raised up or lowered until the bubble in the level glass shows in the centre; then the bracket is located by pricking through one of the screw holes, or making a slight scratch mark under the lower edge. Now take the roller and level down and fasten up the same square hole bracket that was used during this operation in the exact position indicated by the prick or scratch mark. Replace the roller, adjust the spring power to give an easy action, and the shade will properly hang to a nicely in a much shorter time than the same result could have been attained by the old methods.

There is too much poor shade work done. Perfect work advertises the dealer by pleasing the customer.



NOTICE
SCRIPT NAME ON
OF *Mark Hartshorne* LABEL,
AND GET
THE GENUINE

Stanco  HARTSHORN

